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Sugar coating process for e.g. pills - comprises spraying coating soln. onto a material held in rotating rotary vessel, passing dry air onto the coated material etc.

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Patent Details:
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Abstract (Basic): JP 7155111 A

The material (23) to be coated with sugar is put in a rotary vessel (11) having a coating capacity above 50 kg per batch, and a coating soln. is sprayed, rotating the rotary vessel (11) on the material (23) through 3 or more 2-fluid nozzles (26) having a liq. discharge nozzle of at most 3 mm dia. (spraying step). After completion of the spraying step, the rotary vessel (11) is rotated for a specified time (posing step). After completion of the posing step, rotating the rotary vessel (11), dry air is circulated on the material (23) to dry the coating solution which has been sprayed (drying step). The spraying step, the posing step, and the drying step are repeated many times.

USE/ADVANTAGE - Used to coat tablets, pills, etc. with sugar. Since the coating soln. is well dispersed in the rotary vessel, the variation in the wt. of prods. after coating with sugar becomes very small.

In an example, the rotary vessel (11) has a length (L) of about 50 cm, and a di. of about 1 m. the coating capacity being about 60 kg of prod. Dry air is supplied into the rotary vessel (11) through a dry air supply passage (18), and discharged to a dry air exhaust passage (21) through the ventilation duct (17) after penetrating the material (23) to be coated with a sugar. A fluid-liq. supply pipe (25) is provided in the rotary vessel (11), which has 5 2-fluid nozzles (26). By the action of the air supplied through an air supply passage (29), the coating soln. from liq. discharge nozzles (27) becomes liq. drops.

Dwg.1/6

Title Terms: SUGAR; COATING; PROCESS; PILL; COMPRISE; SPRAY; COATING;
SOLUTION; MATERIAL; HELD; ROTATING; ROTATING; VESSEL; PASS; DRY; AIR;
COATING; MATERIAL

Derwent Class: B07; D13; P42

International Patent Class (Main): A23G-003/26

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